BRUHATH BENGALURU MAHANAGARA PALIKE YELAHANKA ZONE

Name of work:Construction of RO Plants in Ward No.04 of Yelahanka Sattellite town Sub Division

	JOB CODE:								
								Est .Cost Rs .50.00 Lakhs	
	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	Earth work excavation for foundation of building water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds complete as per specifications.**(Page No. 5 / Item No. 2.3 of PWD SR 2018-19)**								
	For Ro Plant Building-1								
	L/w Wall		2	6.25	0.90	1.20	13.50		
	S/w Wall		2	2.55	0.90	1.20	5.51		
	Steps		1	5.50	1.40	1.00	7.70		
	Flooring		1	5.20	3.30	0.25	4.29		
	For Column Footing		6	1.50	1.50	1.50	20.25		
	Deductions								
	For Column Footing		-6	1.50	0.90	1.20	-9.72		
	For Ro Plant Building-2								
	L/w Wall		2	6.25	0.90	1.20	13.50		
	S/w Wall		2	2.55	0.90	1.20	5.51		
	Steps		1	5.50	1.40	1.20	9.24		
	Flooring		1	5.50	3.30	0.20	3.63		
	For Column Footing		6	1.50	1.50	1.60	21.60		
	Deductions								
	For Column Footing		-6	1.50	0.90	1.20	-9.72		
		Cum					**85.29**	**406.60**	**34677.15**
	Basic Rate	299.00							
	Loading and Unloading	57.00							
	Lead for earth 8km=(1.28*2*8)	20.48							
	Sub Total	**376.48**							
	Area Weightage 8%	30.12							
	Total	**406.60**							
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS **(P.No. 13/ I.No. 4.2 of PWD 2018-19)**								
	For Ro Plant Building-1								
	L/w Wall		2	6.25	0.90	0.15	1.69		
	S/w Wall		2	2.55	0.90	0.15	0.69		
	steps		1	5.50	1.40	0.15	1.16		
	Flooring		1	5.20	3.30	0.15	2.57		
	For Column Footing		6	1.50	1.50	0.15	2.03		
	Deductions								
	For Column		-6	0.30	0.15	0.15	-0.04		
	For Ro Plant Building-2								
	L/w Wall		2	6.25	0.90	0.15	1.69		
	S/w Wall		2	2.55	0.90	0.15	0.69		
	steps		1	5.50	1.40	0.15	1.16		
	Flooring		1	5.20	3.30	0.15	2.57		
	For Column Footing		6	1.50	1.50	0.15	2.03		
	Deductions								
	For Column		-6	0.30	0.15	0.15	-0.04		
		Cum					**16.18**	**5873.09**	**95020.72**
	Basic Rate	5194.00							

Sl. No	Description of item	Unit	No	Dimension in meter L	B	D	Quantity	Rate In Rs.	Amount In Rs.
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1323.43	Note:- (220*300.78/50)=1323.43						
	Sub Total	5438.05							
	Area Weightage 8%	435.04							
	Total	5873.09							
3	Providing and constructing granite /trap/ baslat size stone masonry in foundation with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications (Page No. 25/ Item No. 5.6, PWD SR 2018-19)								
	For Ro Plant Building-1								
	Below Ground Level								
	1st Step								
	L/w Wall		2	6.10	0.75	0.60	5.49		
	S/w Wall		2	2.70	0.75	0.60	2.43		
	steps		1	5.50	1.40	0.40	3.08		
	2nd Step								
	L/w Wall		2	5.95	0.60	0.40	2.86		
	S/w Wall		2	2.85	0.60	0.40	1.37		
	steps		1	5.50	1.20	0.40	2.64		
	3rd Step								
	L/w Wall		2	5.80	0.45	0.40	2.09		
	S/w Wall		2	3.00	0.45	0.40	1.08		
	Above Ground Level								
	Steps		1	5.50	1.20	0.20	1.32		
			1	5.50	1.00	0.20	1.10		
			1	5.50	0.75	0.20	0.83		
	Deductions								
	For Columns		-6	0.30	0.15	0.60	-0.16		
			-6	0.30	0.15	0.40	-0.11		
			-6	0.30	0.15	0.40	-0.11		
	For Ro Plant Building-2								
	Below Ground Level								
	1st Step								
	L/w Wall		2	6.10	0.75	0.60	5.49		
	S/w Wall		2	2.70	0.75	0.60	2.43		
	steps		1	5.50	1.40	0.40	3.08		
	2nd Step								
	L/w Wall		2	5.95	0.60	0.40	2.86		
	S/w Wall		2	2.85	0.60	0.40	1.37		
	steps		1	5.50	1.20	0.40	2.64		
	3rd Step								
	L/w Wall		2	5.80	0.45	0.40	2.09		
	S/w Wall		2	3.00	0.45	0.40	1.08		
	Above Ground Level								
	Steps		1	5.50	1.20	0.20	1.32		
			1	5.50	1.00	0.20	1.10		
			1	5.50	0.75	0.20	0.83		
	Deductions								
	For Columns		-6	0.30	0.15	0.60	-0.16		
			-6	0.30	0.15	0.40	-0.11		
			-6	0.30	0.15	0.40	-0.11		
		Cum					47.80	5023.58	240117.18
	Basic Rate	4596.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-245.32	Note:- -(0.2*1*1=0.2 Cum/Sqm) (0.2*250*490.63/100)=245.32						
	Add Cement cost as per Issue rate	300.78	Note:- (0.2*250*300.78/50)=300.78						
	Sub Total	4651.47							

	Description of Item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	Total	5023.58							
1	Providing ruled pointing to coursed stone masonry with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing complete as per specifications **(Page No. 115 / Item No. 15.3, PWD SR 2018-19)**								
	For Ro Plant Building-1								
	Above Ground Level								
	1st Step								
	L/w Wall		2	5.80		0.40	4.64		
	S/w Wall		2	3.00		0.40	2.40		
	Steps		1	5.50		0.20	1.10		
			1	5.50		0.20	1.10		
			1	5.50		0.20	1.10		
	For Ro Plant Building-2								
	Above Ground Level								
	1st Step								
	L/w Wall		2	5.80		0.40	4.64		
	S/w Wall		2	3.00		0.40	2.40		
	Steps		1	5.50		0.20	1.10		
			1	5.50		0.20	1.10		
			1	5.50		0.20	1.10		
		Sqm					20.68	165.58	3424.20
	Basic Rate	142.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-50.04	Note:- (0.02*1*1=0.02Cum/Sqm) (0.02*510*490.63/100)=50.04						
	Add Cement cost as per Issue rate	61.36	Note:- (0.02*510*300.78/50)=53.87						
	Sub Total	**153.31**							
	Area Weightage 8%	12.27							
	Total	**165.58**							
5	Filling avaialble excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification **(Page No. 7 / Item No. 2.10 / PWD SR 2018-19)**								
		Cum		Qty as per It 1			85.29	217.08	18513.88
	Basic Rate	201.00							
	Area Weightage 8%	16.08							
	Total	**217.08**							
6	KSRB 4.2.7: Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6 Specification No. KBS 4.1, 4.6. **(Page No. 14, Item No. 4.12, PWD SR 2018-19)**								
	For Ro Plant Building-1								
	Below Ground Level								
	For Column Footing		6	1.50	1.50	0.30	4.05		
	For Column		6	0.30	0.15	1.00	0.27		
	Above Ground Level								
	For Column		6	0.30	0.15	3.00	0.81		
	For Plinth Beam								
	L/w Wall		2	5.75	0.40	0.30	1.38		
	S/w Wall		2	3.05	0.40	0.30	0.73		
	For Lintel Beam								
	L/w Wall		2	5.50	0.15	0.15	0.25		
	S/w Wall								

Sl. No	Description of item	Unit	No	Dimension in meter L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	For Roof Beam								
	L/w Wall		2	5.50	0.15	0.30	0.50		
	S/w Wall		2	3.30	0.15	0.30	0.30		
	For Roof Slab								
	Potiqua		1	5.50	3.60	0.15	2.97		
	Deductions		1	5.50	0.60	0.15	0.50		
	Column's								
			-6	0.30	0.15	0.30	-0.08		
			-6	0.30	0.15	0.15	-0.04		
			-6	0.30	0.15	0.15	-0.04		
	For Ro Plant Building-2								
	Below Ground Level								
	For Column Footing								
	For Column		6	1.50	1.50	0.30	4.05		
	Above Ground Level		6	0.30	0.15	1.00	0.27		
	For Column								
	For Plinth Beam		6	0.30	0.15	3.00	0.81		
	L/w Wall								
	S/w Wall		2	5.75	0.40	0.30	1.38		
	For Lintel Beam		2	3.05	0.40	0.30	0.73		
	L/w Wall								
	S/w Wall		2	5.50	0.15	0.15	0.25		
	For Roof Beam		2	3.30	0.15	0.15	0.15		
	L/w Wall								
	S/w Wall		2	5.50	0.15	0.30	0.50		
	For Roof Slab		2	3.30	0.15	0.30	0.30		
	Potiqua		1	5.50	3.60	0.15	2.97		
	Deductions		1	5.50	0.60	0.15	0.50		
	Column's								
			-6	0.30	0.15	0.30	-0.08		
			-6	0.30	0.15	0.15	-0.04		
			-6	0.30	0.15	0.15	-0.04		
		Cum							
	Basic Rate	6045.00					23.47	6935.93	162758.65
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1668.14	Note:- (340*490.63/100)=1668.14						
	Add Cement cost as per Issue rate	2045.30	Note:- (340*300.78/50)=2045.30						
	Sub Total	6422.16							
	Area Weightage 8%	513.77							
	Total	6935.93							
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P. No.13/ I. No.4.6 of PWD SR 2018-19)**								
	For Ro Plant Building-1								
	Coping								
	For Steps		2	5.50	0.20	0.10	0.22		
			1	5.50	0.75	0.10	0.41		
	For Ro Plant Building-2								
	Coping								
	For Steps		2	5.50	0.20	0.10	0.22		
			1	5.50	0.75	0.10	0.41		
		Cum							
	Basic Rate	5422.00					1.27	6143.29	7771.26
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1177.51	Note:- (240*490.63/100)=1668.14						
	Add Cement cost as per Issue rate	1443.74							

Description of item	Unit	No	Dimension in meter			Quantity	Rate in Rs.	Amount in Rs.
			L	B	D			
Sub Total	5688.23							
Area Weightage 8%	455.06							
Total	6143.29							
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 (Page No. 18 / Item No. 4.46.2, PWD SR 2018-19)**								
Consider 100 kg/cum of concrete			23.47	100.00		2346.60		
	Tonne					2.35	84247.56	197695.32
Issued Rate	78007.00							
Area Weightage 8%	6240.56							
Total	84247.56							
Providing and removing centering shuttering strutting propping etc., and removal of form work for columns, pillars, abutments, post and struts square/ rectangular/ polygon in plan including cost of all materials labour complete as per specification **(Page No. 16 / Item No. 4.32, PWD SR 2018-19)**								
Ro Plant Building-1								
Column Footings		6	6.40		0.30	11.52		
Column		6	0.90		4.00	21.60		
Ro Plant Building-2								
Column Footings		6	6.40		0.30	11.52		
Column		6	0.90		4.00	21.60		
	Sqm					66.24	492.48	32621.88
Basic Rate	456.00							
Area Weightage 8%	36.48							
Total	492.48							
Providing and removing centering shuttering strutting propping etc., and removal of form work for sides and soffits of beams beam houchings cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification **(Page No. 17 / Item No. 4.34, PWD SR 2018-19)**								
For Ro Plant Building-1								
For Plinth Beam								
L/w Wall		4	5.75		0.30	6.90		
S/w Wall		4	3.05		0.30	3.66		
For Lintel Beam								
L/w Wall		4	5.50		0.15	3.30		
S/w Wall		4	3.30		0.15	1.98		
For Roof Beam								
L/w Wall		4	5.50		0.30	6.60		
S/w Wall		4	3.30		0.30	3.96		
For Ro Plant Building-2								
For Plinth Beam								
L/w Wall		4	5.75		0.30	6.90		
S/w Wall		4	3.05		0.30	3.66		
For Lintel Beam								
L/w Wall		4	5.50		0.15	3.30		
S/w Wall		4	3.30		0.15	1.98		
For Roof Beam								
L/w Wall		4	5.50		0.30	6.60		
S/w Wall		4	3.30		0.30	3.96		
	Sqm					52.80	315.36	16651.01
Basic Rate	292.00							
Area Weightage 8%	23.36							
Total	315.36							

	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs,landing, balconies and likes thickness upto 200mm including cost of materials, labour complete as per specification **(Page No. 16/ Item No. 4.30, PWD SR 2018-19)**								
	For Ro Plant Building-1								
	For Roof Slab								
			1	5.50	3.60		19.80		
	Potiqua		1	5.50	0.60		3.30		
	For Ro Plant Building-2								
	For Roof Slab								
			1	5.50	3.60		19.80		
	Potiqua		1	5.50	0.60		3.30		
		Sqm					**46.20**	**475.20**	**21954.24**
	Basic Rate	440.00							
	Area Weightage 8%	35.20							
	Total	**475.20**							
2	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hirecharges of machineries etc., complete as per specifications. KBS No.54 **(Page No. 27 / Item No. 5.26.2, PWD SR 2018-19) (400x150x200mm)**								
	For Ro Plant Building-1								
	L/wall		2	5.50		3.00	33.00		
	S/wall		2	3.30		3.00	19.80		
	Allround Parapet Wall		1	17.60		0.80	14.08		
	Deductions								
	Column's		-6	0.30		3.00	-5.40		
	Allround Lintel Beam		1	17.60		0.15	-2.64		
	Allround Roof Beam		1	17.60		0.30	-5.28		
	M.D		1	2.50		2.50	-6.25		
	For Ro Plant Building-1								
	L/wall		2	5.50		3.00	33.00		
	S/wall		2	3.30		3.00	19.80		
	Allround Parapet Wall		1	17.60		0.80	14.08		
	Deductions								
	Column's		-6	0.30		3.00	-5.40		
	Allround Lintel Beam		1	17.60		0.15	-2.64		
	Allround Roof Beam		1	17.60		0.30	-5.28		
	M.D		1	2.50		2.50	-6.25		
		Sqm					**94.62**	**1006.74**	**95257.51**
	Basic Rate	924.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-36.11	Note:- (7.36*490.63/100)=36.11						
	Add Cement cost as per Issue rate	44.27	Note:- (7.36*300.78/50)=44.27						
	Sub Total	**932.16**							
	Area Weightage 8%	74.57							
	Total	**1006.74**							
3	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications **(Page No116, Item No.15.18 PWD SR 2018-19)**								
	OutSide Plastering								
	For Ro Plant Building-1								
	Alround R O Plant								
	L/wall		2	5.50		3.00	33.00		
	S/wall								

	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	Deductions								
	M.D								
	For Ro Plant Building-2		1	2.50		2.50	-3.13		
	For Ro Plant Building-1								
	Alround R O Plant								
	L/wall								
	S/wall		2	5.50		3.00	33.00		
	Allround Parapet Wall		2	3.60		3.00	21.60		
	Deductions		1	18.20		1.35	24.57		
	M.D								
			1	2.50		2.50	-3.13		
		Sqm					152.09	324.34	49328.88
	Basic Rate	289.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-50.04	Note:- (0.02*1*1=0.02Cum/Sqm) (0.02*510*490.63/100)=50.04						
	Add Cement cost as per Issue rate	61.36	Note:- (0.02*510*300.78/50)=61.36						
	Sub Total	300.31							
	Area Weightage 8%	24.03							
	Total	324.34							
4	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications **(P.No. 116, I.No. 15.15 of PWD SR 2018-19)**								
	For Ro Plant Building-1								
	In side plastering								
	Alround R O Plant								
	L/wall								
	S/wall		2	5.20		3.00	31.20		
	Deductions		2	3.30		3.00	19.80		
	M.D								
	For Ro Plant Building-2		1	2.50		2.50	-3.13		
	In side plastering								
	Alround R O Plant								
	L/wall								
	S/wall		2	5.20		3.00	31.20		
	Deductions		2	3.30		3.00	19.80		
	M.D								
			1	2.50		2.50	-3.13		
		Sqm					95.75	309.08	29594.22
	Basic Rate	276.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-45.04	Note:(0.018*1*1=0.018Cum/Sqm) (0.018*510/490.63/100)=45.04						
	Add Cement cost as per Issue rate	55.22	Note:- (0.018*510*300.78/50)=55.22						
	Sub Total	286.18							
	Area Weightage 8%	22.89							
	Total	309.08							
5	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification . **(Page No. 116, Item No. 15.21 of PWD SR 2018-19)**								
	Ceiling Plastering								
	For Ro Plant Building-1								
			1	5.50	3.60		19.80		
	Potiqua		1	5.50	0.60		3.30		
	For Ro Plant Building-2								
			1	5.50	3.60		19.80		
	Potiqua		1	5.50	0.60		3.30		
		Sqm					46.20	261.13	12064.30
	Basic Rate	235.00							
	Deduct Cement cost as per SR -18-19		Note:-0.012*1*1						

	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		In Rs.	In Rs.
	Add Cement cost as per Issue rate	36.82	Note:- (0.012*510*300.78/50)=36.82						
	Sub Total	241.79							
	Area Weightage 8%	19.34							
	Total	261.13							
	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies terraces etc., consisting of following applications a) applying and grouting a slurry coat of neat cement using 2.75 kg per sqm of cement admixed with proprietary water proofing compound confirming to IS 2645 over the RCC slab after cleaning the surface before treatment b)laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admix with propreatory water proofing compound confirming IS 2645 over 20mm thick layer of cement mortar 1:5 admix with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs c)after two days of proper curing applying a second coat of cement slurry admix with preprietoray water proofing compound d) finishing the surface with 20mm joint less cement mortar of mix 1:4 admix with preprietary water proofing compond wall finally finishing the surface with travel and neat cement slurry and making of 300 x 300 mm square e the whole terrace so finished shall be flooded with water for a minimum period of two weeks curing and final test including cost of materials labour complete as per specifications **(Page No.68, Item No. 10.2 of PWD SR 2018-19)**								
	For Ro Plant Buildings								
	Ro Plant Building-1		1	5.50	4.20		23.10		
	Ro Plant Building-2		1	5.50	4.20		23.10		
		Sqm					46.20	1125.06	51977.66
	Basic Rate	1006.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-157.98	Cement Slurry 2.75*490.63/100=13.49 CC with 50% CM 1:5 average thick 75mm,0.075*310*490.63/100=114.07,20mm thick CM 1:5,0.020*310*490.63/100=30.42						
	Add Cement cost as per Issue rate	193.70	Cement Slurry 2.75*300.78/50=16.54, CC with 50% CM 1:5 average thick 75mm,0.075*310*300.78/50=139.86, 20mm thick CM 1:5, 0.020*310*300.78/50=37.30						
	Sub Total	1041.72							
	Area Weightage 8%	83.34							
	Total	1125.06							
7	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. **(P.No. 128, I.No. 15.106 of SR 2018-19).**								
	For Ceiling								
			(Qty vide Item no.14 &13)				141.95		
		Sqm					141.95	84.24	11957.87
	Basic Rate	78.00							
	Area Weightage 8%	6.24							
	Total	84.24							
8	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. **(P. No. 119, I.No. 15.51.2 of SR 2018-19).**								
			(Qty vide Item no.16)						

	Description of item	Unit	No	Dimension in meter			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Basic Rate	90.00							
	Area Weightage 8%	7.20							
	Total	97.20							
	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications **(Page No. 120 / Item No. 15.53.2, SR 2018-19.)**								
			(Qty vide Item no.12)				152.09		
		Sqm					152.09	110.16	16754.23
	Basic Rate	102.00							
	Area Weightage 8%	8.16							
	Total	110.16							
	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 900mm **(P.No.110, I.No.14.47.2 of PWD SR 2018-19)**								
	For R O Plant Building-1								
	Flooring (Hall)		1	5.20	3.30		17.16		
	Skerting		1	17.00		0.15	2.55		
	For Steps								
			2	5.50	0.20		2.20		
			3	5.50		0.15	2.48		
	Platform		1	5.50	0.75		4.13		
	For R O Plant Building-2								
	Flooring (Hall)		1	5.20	3.30		17.16		
	Skerting		1	17.00		0.15	2.55		
	For Steps								
			2	5.50	0.20		2.20		
			3	5.50		0.15	2.48		
	Platform		1	5.50	0.75		4.13		
		Sqm					57.02	2609.75	148807.67
	Basic Rate	2408.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-37.29	Note:- (0.02*1*1=0.02 cum/Sqm) (0.02*380*490.63/100)=37.29						
	Add Cement cost as per Issue rate	45.72	Note:- (0.02*380*300.78/50)=45.72						
	Sub Total	**2416.43**							
	Area Weightage 8%	193.31							
	Total	**2609.75**							
1	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips; suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m Specification No. KBS 7:107 7.12 **(Page No.33, It No.7.5, of KPWD S.R 2018-19)**								
	For RO Plant Buildings								
	For RO Plant Building-1		1	2.50		2.50	6.25		
	For RO Plant Building-2		1	2.50		2.50	6.25		
		Sqm					12.50	2815.56	35194.50
	Basic Rate	2607.00							
	Area Weightage 8%	208.56							

	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	KSRB 7.6 : Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting , materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 7.10.6 / 7.12 **(Page No.34, Item No.7.6 of PWD SR 2018-19)**								
	For RO Plant Buildings								
	For RO Plant Building-1		1	2.50			2.50		
	For RO Plant Building-2		1	2.50			2.50		
		Mtr					**5.00**	**520.56**	**2602.80**
	Basic Rate	482.00							
	Area Weightage 8%	38.56							
	Total	**520.56**							
	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar to match the surface; all the frames throughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications.using aluminium section anodized to 12 - 15 microns. **(I.tm No.7.17.1, P.No.39, SR:2018-19)**								
	Sliding Door								
	For RO Plant Building-1		1	2.50		2.50	6.25		
	For RO Plant Building-2		1	2.50		2.50	6.25		
		Sqm					**12.50**	**6621.48**	**82768.50**
	Basic Rate	6131.00							
	Area Weightage 8%	490.48							
	Total	**6621.48**							
4	Water purification plants: Supplying, Installation andCommissioning of automatic Water purification plant (RO+UF)with all accessories piping, product water tank on single phase power supply on Turnkey/EPC Basis as per the enclosed detailed Technical Specifications including cost of material, loading and unloading and as directed by the Engineer in charge.**1000 LPH SS (P.No.152, I.No.14.01(h) of RWS SR 2018-19)**								
			2				2.00		
		Nos					**2.00**	**412000.00**	**824000.00**
	Basic Rate	400000.00							
	Area Weightage 3%	12000.00							
	Sub Total	**412000.00**							
5	Additional price for installation of Ultra Voilet System								
			2				2.00		
		Nos					**2.00**	**10300.00**	**20600.00**
	Basic Rate	10000.00							
	Area Weightage 3%	300.00							
	Sub Total	**10300.00**							

	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.**(For 1000 litre capacity)** Specification No.KBS 13.22 **(P.No.96, I.No.13.78 of PWD SR 2018-19)**								
	For Two Ro Plant Buildings		2				2.00		
		Nos					**2.00**	**7374.24**	**14748.48**
	Basic Rate	6828.00							
	Area Weightage 8%	546.24							
	Total	**7374.24**							
	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - **20mm nominal OD pipes. (P.No.96, I.No. 13.86.2 of PWD SR 2018-19)**								
			2	30.00			60.00		
		Mtr					**60.00**	**253.80**	**15228.00**
	Basic Rate	235.00							
	Area Weightage 8%	18.80							
	Total	**253.80**							
8	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - **25mm nominal OD pipes(P.No.96, I.No. 13.86.3 of PWD SR 2018-19)**								
			2	30.00			60.00		
		Mtr					**60.00**	**316.44**	**18986.40**
	Basic Rate	293.00							
	Area Weightage 8%	23.44							
	Total	**316.44**							
9	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - **32mm nominal OD pipes(P.No.96, I.No. 13.86.4 of PWD SR 2018-19)**								
			2	25.00			50.00		
		Mtr					**50.00**	**403.92**	**20196.00**
	Basic Rate	374.00							
	Area Weightage 8%	29.92							
	Total	**403.92**							
	Electrical Works								
30	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.19/20mm dia 2mm thick **(P.No-2 ,I No-1.1.1 of Electrical PWD S.R 2019-20)**								
	PVC conduit pipe 9/20mm	**Mtrs**	2	40.00			**80.00**	**50.00**	**4000.00**
31	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments **(P.No-5 ,I No-2.3 of Electrical**								

	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	1.5 Sqmm	Mtrs	2	70.00			140.00	20.50	2870.00
	2.5Sqmm	Mtrs	2	50.00			100.00	32.00	3200.00
	4.0Sqmm	Mtrs	2	20.00			40.00	45.00	1800.00
	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (I No-2.2 Pg No. 5 of PWD S.R 2019-20)								
	Short point upto 3Mtr from tapping point to out let via switch box	Points	6				6.00	160.00	960.00
	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Points	4				4.00	250.00	1000.00
	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Points	2				2.00	375.00	750.00
	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall. . (Page No -9, I No-3.4 of electrical PWD S.R 2019-20)								
	1-3Way	No's	6				6.00	95.00	570.00
	16-18Way	No's	4				4.00	180.00	720.00
	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (Page No -9, I No-3.5 of electrical PWD S.R 2019-20)								
	1 to 3 Module	No's	6				6.00	110.00	660.00
	16-18 Module	No's	4				4.00	270.00	1080.00
5	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. (Page No - 10, I No-3.6 of electrical PWD S.R 2019-20)								
	6Amps one way Switch (I No-3.6.1)	Each	4				4.00	70.00	280.00
	6Amps 3way socket (I No-3.6.3)	Each	4				4.00	105.00	420.00
	16Amps one way switch (I No-3.6.8)	Each	4				4.00	115.00	460.00
	6/16Amps universal socket (I No-3.6.11)	Each	6				6.00	162.00	972.00
	1000-1200Watts Dimmer (I No-3.6.7)	Each	10				10.00	550.00	5500.00
6	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 Amps DP (Page No -27, I No-5.17.4 of electrical PWD S.R 2019-20)								
		Each	4				4.00	909.00	3636.00
7	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia (I No-6.1, Page no.17 of Electrical PWD S.R 2019-20)								

	Description of item	Unit	No	Dimension in meter			Quantity	Rate	Amount
				L	B	D		In Rs.	In Rs.
	SSupplying & fixing of Porcelain fuse channel with cut outon existing wooden/panel using necessary nuts, bolts and washers. 16Amps (I No-5.7.1, Page no.24 of Electrical PWD S.R 2019-20)								
		Each	2				2.00	117.00	234.00
	Supplying & Fixing retrofit type -PL- LED lamp..... W LED Linear source with CCT 6500 degree K, CRI> 70%. Efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic diver integrated in the system, with PF > 0.95, Power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, life as per LM 79. The operating input voltage should be between 130 to 275 volts. Tested by NABL/CPBI accredited laboratory with 2years Warranty against any manufacturing defect working under standard electrical.18-20 Watts.(Page No.64, Item No.12.2 , PWD Electrical SR 2019-20)								
			6				6.00		
		Nos					6.00	425.00	2550.00
	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders(Page No.79, Item No.14.7.1 , PWD Electrical SR 2019-20)								
			6				6.00		
		Nos					6.00	110.00	660.00
	For Borewell								
	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc ,(Page no.148,item no.13.04 ,RWS SR-Banagalore Circle-2019-2020)								
			2				2.00		
		Each					2.00	3881.04	7762.08
	Basic Rate	3768.00							
	Area Weightage 3%	113.04							
	Total	3881.04							
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (Page no.148,item no.13.01 ,RWS SR-Banagalore Circle-2019-2020)								
	Area								
	0.00 to 50.00 Mtr.	Mtr	2	50.00			100.00	357.41	35741.00
	Basic Rate	347.00							
	Area Weightage 3%	10.41							
	Total	357.41							
	50.00 to 100.00 Mtr.	Mtr	2	50.00			100.00	455.26	45526.00
	Basic Rate	442.00							
	Area Weightage 3%	13.26							
	Total	455.26							
	100.00 to 150.00 Mtr.	Mtr	2	50.00			100.00	469.68	46968.00
	Basic Rate	456.00							

	Description of item	Unit	No	Dimension in meter			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Total	469.68							
	150.00 to 200.00 Mtr.	Mtr	2	50.00			100.00	552.08	55208.00
	Basic Rate	536.00							
	Area Weightage 3%	16.08							
	Total	552.08							
	200.00 to 250.00 Mtr.	Mtr	2	50.00			100.00	653.02	65302.00
	Basic Rate	634.00							
	Area Weightage 3%	19.02							
	Total	653.02							
	250.00 to 300.00 Mtr.	Mtr	2	50.00			100.00	721.00	72100.00
	Basic Rate	700.00							
	Area Weightage 3%	21.00							
	Total	721.00							
	300.00 to 350.00 Mtr.	Mtr	2	50.00			100.00	849.75	84975.00
	Basic Rate	825.00							
	Area Weightage 3%	24.75							
	Total	849.75							
	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes. All shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.(exclusive of all taxes and duties).prices include Collar-Medium duty. 175mm dia x 5.4mm thick **(Page no.338,item no.15.85 ,RWS SR-Banagalore Circle-2019-2020)**								
		Rmt	2	50.00			100.00	1364.75	136475.00
	Basic Rate	1325.00							
	Area Weightage 3%	39.75							
	Total	1364.75							
4	Providing and fixing 250mm dia PVC pipe and as per specification and directions. **(BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11.)**								
		Rmt	2	6			12.00	1100.00	13200.00
	Basic Rate	1100.00							
5	**Providing and laying at site of work175mm thick MS casing caps** as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge **(Page no.338,item no.15.87 ,RWS SR-Banagalore Circle-2019-2020)**								
		Each	2				2.00	103.00	206.00
	Basic Rate	100.00							
	Area Weightage 3%	3.00							
	Total	103.00							
6	**Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable** for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings **15HP/11KW 35stage (P.NO-XLII, I.NO-41, PWD SR-2018-19)**								
		Nos	2				2.00	71787.44	143574.88
	Basic Rate	67724.00							
	Area Weightage 6%	4063.44							
	Total	71787.44							

Sl. No.	Description of item	Unit	No	Dimension in meter L	B	D	Quantity	Rate in Rs.	Amount in Rs.
47	**Providing, laying & jointing GI pipes** confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe **(PWD SR-2018-19, P.No.92 I.no. 13.6)**								
		Rmtr	2	300.00			600.00	542.72	325632.00
	Basic Rate	512.00							
	Area Weightage 6%	30.72							
	Total	542.72							
48	Supply of 50mm M.S collars **(PWD SR-2018-19, P.No.XLVII Sl.no.2)**								
		Each	2	50.00			100.00	212.00	21200.00
	Basic Rate	200.00							
	Area Weightage 6%	12.00							
	Total	212.00							
49	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS: 8130-1984. and virgin grade PVC Sheated Suitable for working voltage upto 1100 Volts as per IS:694:1990. 3C X 6.0Sq.mm**(P.NO-07, I.NO-2.6.4, PWD Electrical SR 19-20,Bangalore circle)**								
		mtr	4	320.00			1280.00	211.15	270272.00
	Basic Rate	205.00							
	Area Weightage 3%	6.15							
	Total	211.15							
50	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)								
		Nos	2				2.00	14800.00	29600.00
	Basic Rate	14800.00							
51	**Fabricating supplying and mounting MS box** of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm **(P.NO-30, I.NO-5.42.1, PWD SR Electrical 19-20,Bangalore circle)**								
	for 1 borewell		2	1100.00	20.00		44000.00		
		Sqm Cm					44000.00	0.41	18128.00
	Basic Rate	0.40							
	Area Weightage 3%	0.01							
	Total	0.41							
52	**Providing & Fixing of clamps set and borewell cap** to the pump (MR) **(P.NO-XLVII, SI.NO-17, PWD SR-2018-19)**								
		Set	2				2.00	1908.00	3816.00
	Basic Rate	1800.00							
	Area Weightage 6%	108.00							
	Total	1908.00							
53	**Supply and delivery at site of brand new best make non-return valve** as per IS 778/1984 with ISI Mark and as per its latest amendments,**Size- 50mm . (Page no.129,item no.12.06 (a) ,RWS SR-Banagalore Circle-2019-2020)**								
		No's	2				2.00	1175.00	2350.00
	Basic Rate	1175.00							

	Description of item	Unit	No	Dimension in meter			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments,Size- 50mm (Page no.129,Item no.12.05 (a) ,RWS SR-Banagalore Circle-2019-2020)								
		No's	2				2.00	1190.00	2380.00
	Basic Rate	1190.00							
5	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI bend confirming to IS 1239-II, 1991 with latest amendments if any. (Page no.335,Item no.15.74.5 ,RWS SR-Banagalore Circle-2019-2020)								
		No's	2				2.00	235.00	470.00
	Basic Rate	235.00							
56	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI union confirming to IS 1239-II, 1991 with latest amendments if any. (Page no.335,Item no.15.78.5 ,RWS SR-Banagalore Circle-2019-2020)								
		No's	2				2.00	175.00	350.00
	Basic Rate	175.00							
57	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any.(Page no.33,Item no.15.73.5 ,RWS SR-Banagalore Circle-2019-2020)								
		No's	2				2.00	175.00	350.00
	Basic Rate	175.00							
58	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work. (Page no.130,Item no.12.16 ,RWS SR-Banagalore Circle-2019-2020)								
		Job	2				2.00	5819.50	11639.00
	Basic Rate	5650.00							
	Area Weightage 3%	169.50							
	Total	5819.50							
59	Labour charges for erection of indoor type panel board and meter board units with all necessary materials and labour tools and equipments including cement concrete for foundation/bed etc,complete as per specification, with testing of as per instructions of engineer incharge of work. (Page no.130,Item no.12.17 ,RWS SR-Banagalore Circle-2019-2020)								
		No's	2				2.00	1160.81	2321.62
	Basic Rate	1127.00							
	Area Weightage 3%	33.81							
	Total	1160.81							
60	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required confirming to IEC 60898, 40 Amps DP (P.NO -27, I.NO - 5.17.5, ,PWD Electrical SR 19-20,Bangalore circle)								
		Each	2				2.00	1376.08	2752.16
	Basic Rate	1336.00							
	Area Weightage 3%	40.08							
	Total	1376.08							
61	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 40, I.NO - 6.4.4,PWD Electrical SR 19-20,Bangalore circle)								
		Mtr	2	35.00			70.00	154.50	10815.00
	Basic Rate	150.00							
	Area Weightage 3%	4.50							
	Total	154.50							

	Description of Item	Unit	No	Dimension in meter L	B	D	Quantity	Rate in Rs.	Amount in Rs.
62	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (As per Civil SR KSRB I-2,P-7)(P.NO -41, I.NO -6.6.1,,PWD Electrical SR 19-20,Bangalore circle)								
	Basic Rate	Mtr	2	30.00			60.00	78.28	4696.80
	Area Weightage 3%	76.00							
	Total	2.28							
		78.28							
63	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO -41, I.NO -6.9.1, PWD Electrical SR 19-20,Bangalore circle)								
	Basic Rate	Mtr	2	3.00			6.00	345.05	2070.30
	Area Weightage 3%	335.00							
	Total	10.05							
		345.05							
64	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia. (Page no.131,item no.12.23 ,RWS SR-Banagalore Circle-2019-2020)								
	Basic Rate	Job	2				2.00	3741.99	7483.98
	Area Weightage 3%	3633.00							
	Total	108.99							
		3741.99							
65	Providing,Supplying and fixing LT cast iron potheads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3½x6 Sqm (Page no.131,item no.12.22 ,RWS SR-Banagalore Circle-2019-2020)								
	Basic Rate	No's	2				2.00	511.91	1023.82
	Area Weightage 3%	497.00							
	Total	14.91							
		511.91							
66	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834, 3phase 400/440 volts grade,for power Factor improvement of roating machinery like indution motor (P.NO -29, I.NO -5.37, PWD Electrical SR 19-20,Bangalore circle)								
	Basic Rate	KVAR	2				2.00	412.00	824.00
	Area Weightage 3%	400.00							
	Total	12.00							
		412.00							
67	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 24, I.NO -5.6.6, PWD Electrical SR 19-20,Bangalore circle)								
	Basic Rate	Each	2				2.00	300.76	601.52
	Area Weightage 3%	292.00							
	Total	8.76							
		300.76							
68	KPTCL Deposit charges			L/S			2.00	10000.00	20000.00
69	Borewell registration charges per Rs 1000 each for BWSSB						2.00	1000.00	2000.00

	Description of Item	Unit	No	Dimension in meter L	B	D	Quantity	Rate in Rs.	Amount in Rs.
10	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinery soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 **(Page No.5 , Item No.2.4,PW,P & IWTD SR 2018-19)**								
	Bore well								
	For water line supply		2	150.00	0.75	0.90	202.50		
		cum					202.50	316.94	64180.35
	Basic Rate	299.00							
	Area Weightage 6%	17.94							
	Total	316.94							
11	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete (external work) 50mm nominal OD pipes **(Page No.99, Item No. 13.87.6 SR 2018-19)**								
			2	150.00			300.00		
		Rmt					300.00	457.92	137376.00
	Basic Rate	432.00							
	Area Weightage 6%	25.92							
	Total	457.92							
12	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No.155, Item No.20.18 PWD SR 2018-19)**								
	Bore well								
	For water line supply		2	150.00	0.75	0.15	33.75		
		cum					33.75	2001.28	67543.20
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Total	2001.28							
13	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 PWD SR 2018-19)**								
	Bore well								
	For water line supply		2	150.00	0.75	0.15	33.75		
		cum					33.75	5680.59	191719.87
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19	-1079.39	Note:- (220*490.63)/100=1079.39						
	Add Cement cost as per Issue rate	1323.43	Note:- (220*300.78)/100=1323.43						
	Sub total	5359.05							
	Area Weightage 6%	321.54							
	Total	5680.59							

Description of item	Unit	No	Dimension in meter L	B	D	Quantity	Rate in Rs.	Amount in Rs.
Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								
Bore well for water line supply		2	150.00	0.75	0.15	33.75		
	cum					33.75	5634.27	190156.57
Basic Rate	4916.00							
Deduct Cement cost as per SR -18-19	-1766.27	Note:- (360*490.63)/100=1766.27						
Add Cement cost as per Issue rate	2165.62	Note:- (360*300.78)/50=2165.62						
Sub total	5315.35							
Area Weightage 6%	318.92							
Total	5634.27							
Filling available earth around pipe lines cable in layers not exceeding 20cms, in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost all labour complete as per specifications (Page No.6 Item No. 2.10,PW,P&IWTD SR 2018-19)								
Consider of Qty vide No.33 as 55%						111.38		
	Cum					111.38	213.06	23729.56
Basic Rate	201.00							
Area Weightage 6%	12.06							
Total	213.06							
						Total Constrution cost		4461910.57
						GST Charges 12%		535429.27
						Sub Total		4997339.84
						Miscellaneous & Rounding Off		2660.16
						Grand Total		5000000.00

Administrative Approval
Accorded For Rs 50.00 lakhs only
Head of A/C P 3940
CER NO : 01 Dt: 19.06.2021
TA
CE (YNK)

Rupees Fifty Lakh(s) Only

Notes:
Work Comes Within BBMP Limits.
Certified that personaly Inspected the Work Spot.
Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 and Issue Rates from 01-01-21
Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way
Work is not include in any other program of work.

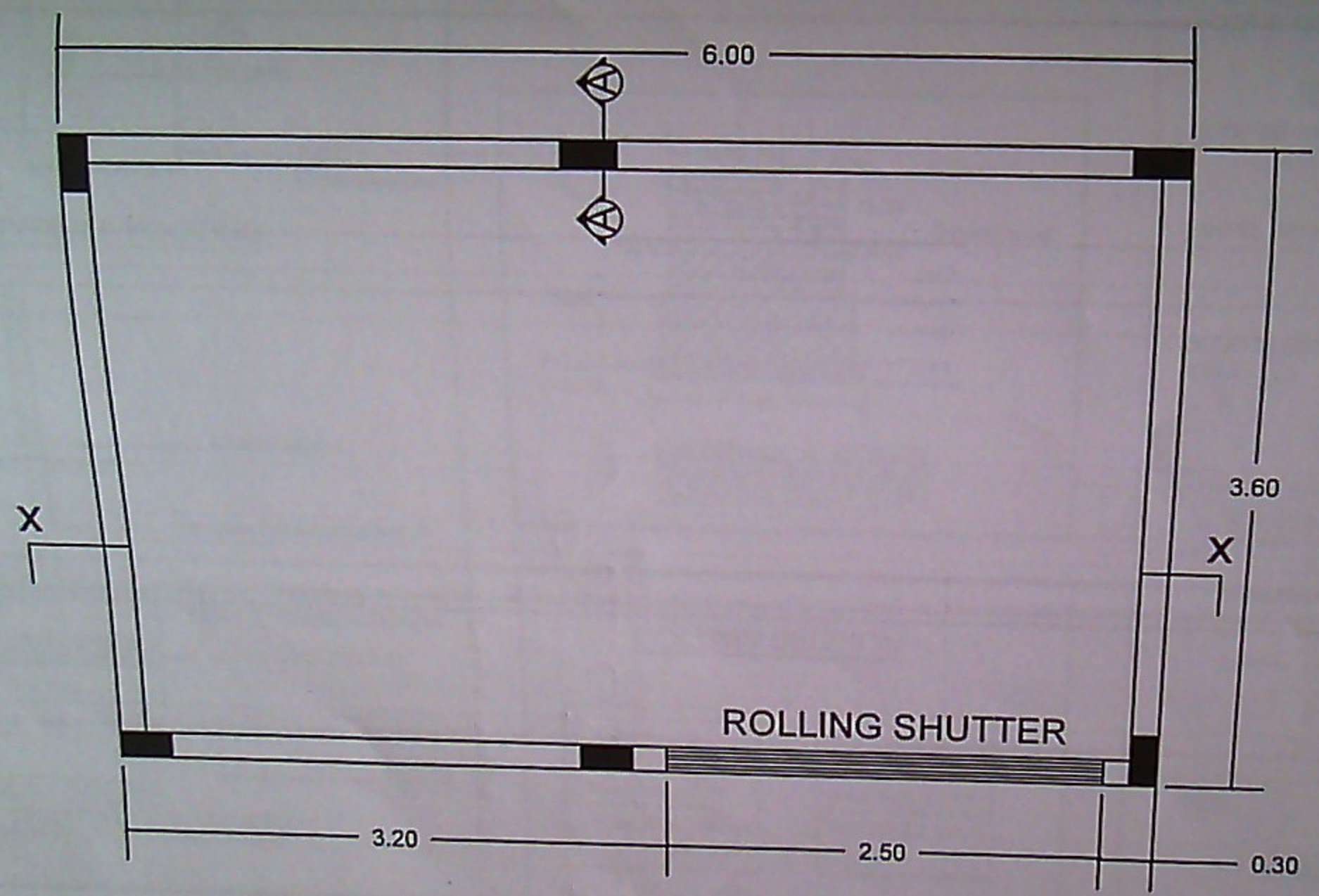
Assistant Engineer
Ward No.04

Assistant Executive Engineer
Yelahanka Satellite town Sub Division

Executive Engineer
Yelahanka Division

Administrative Approval
Accorded For Rs 50.00 lakhs only
Head of A/C P 3940
CER NO : 11 Dt: 19.06.2021
TA
CE

Name of Work: Construction of R O plants in ward no.04 of Yelahanka Satellite town sub Division

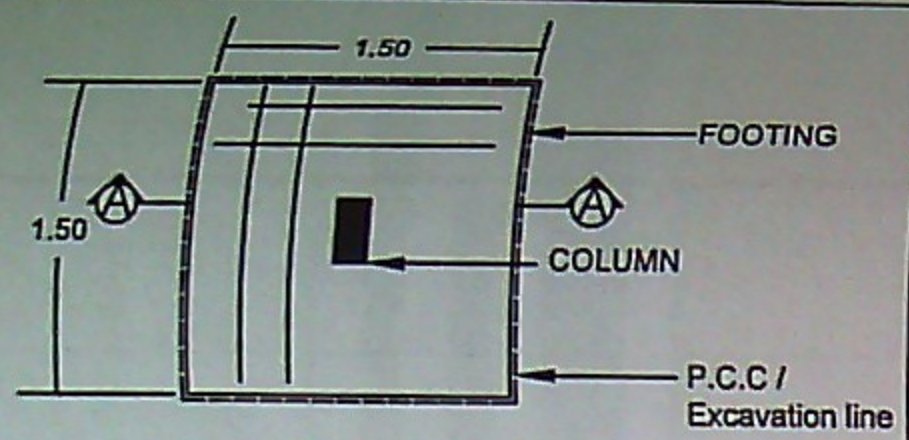


Assistant Engineer
Ward NO. 04

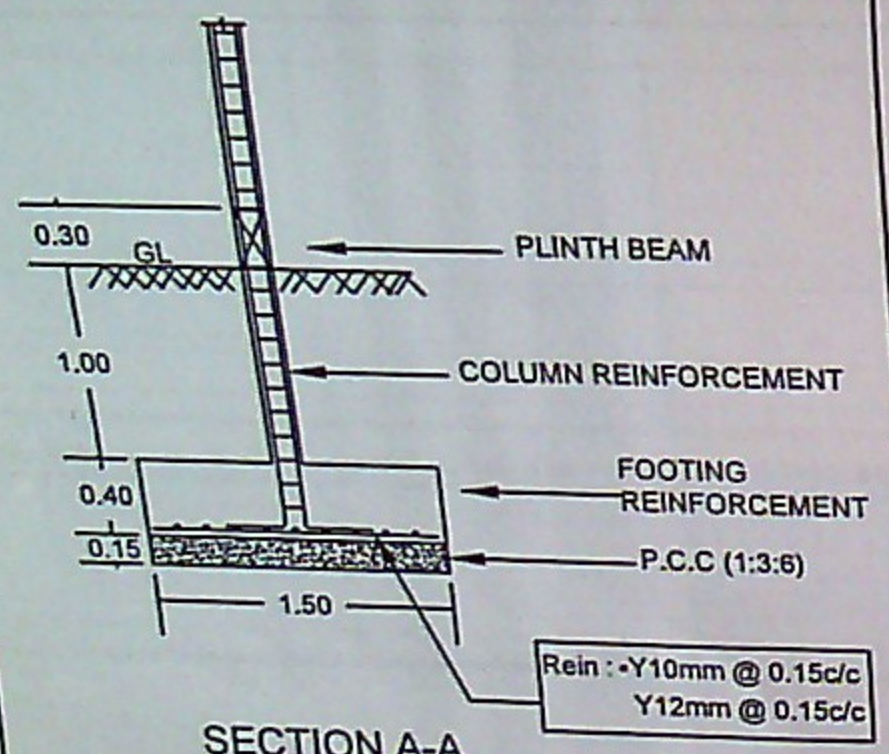
Assistant Executive Engineer
Yelahanka Satellite town Sub Division

All Dimensions are in meters

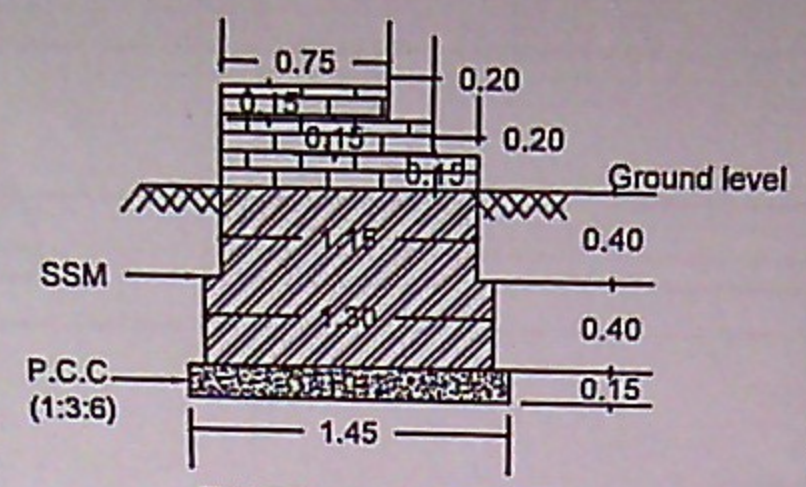
Name of Work: Construction ...
town sub Division



PLAN - TYPICAL FOOTING

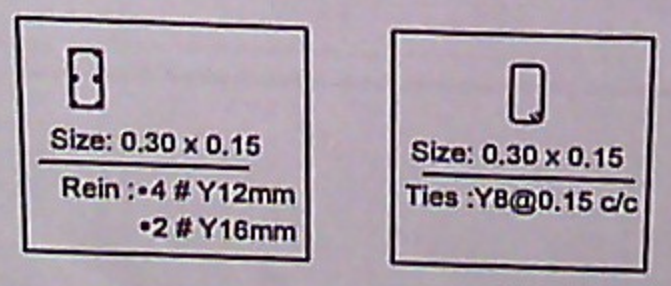


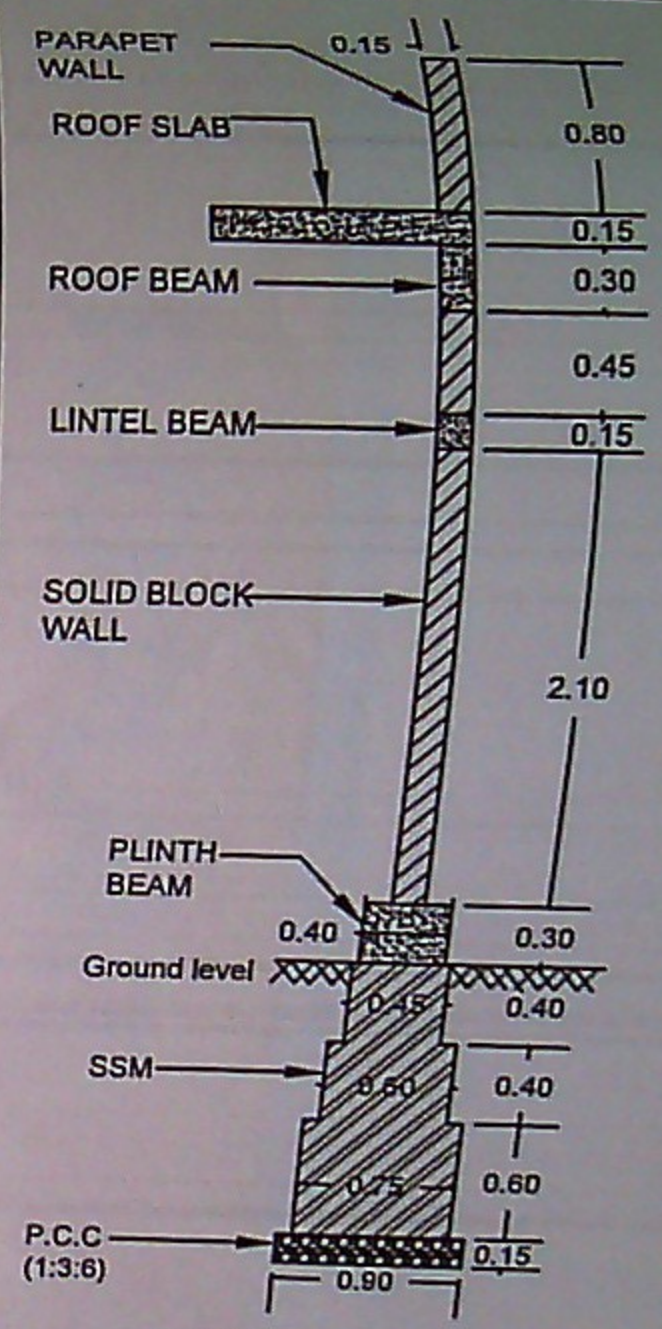
SECTION A-A
TYPICAL FOOTING DETAILES



ENTRANCE STEPS
(CROSS SECTION)

COLUMN SECTION



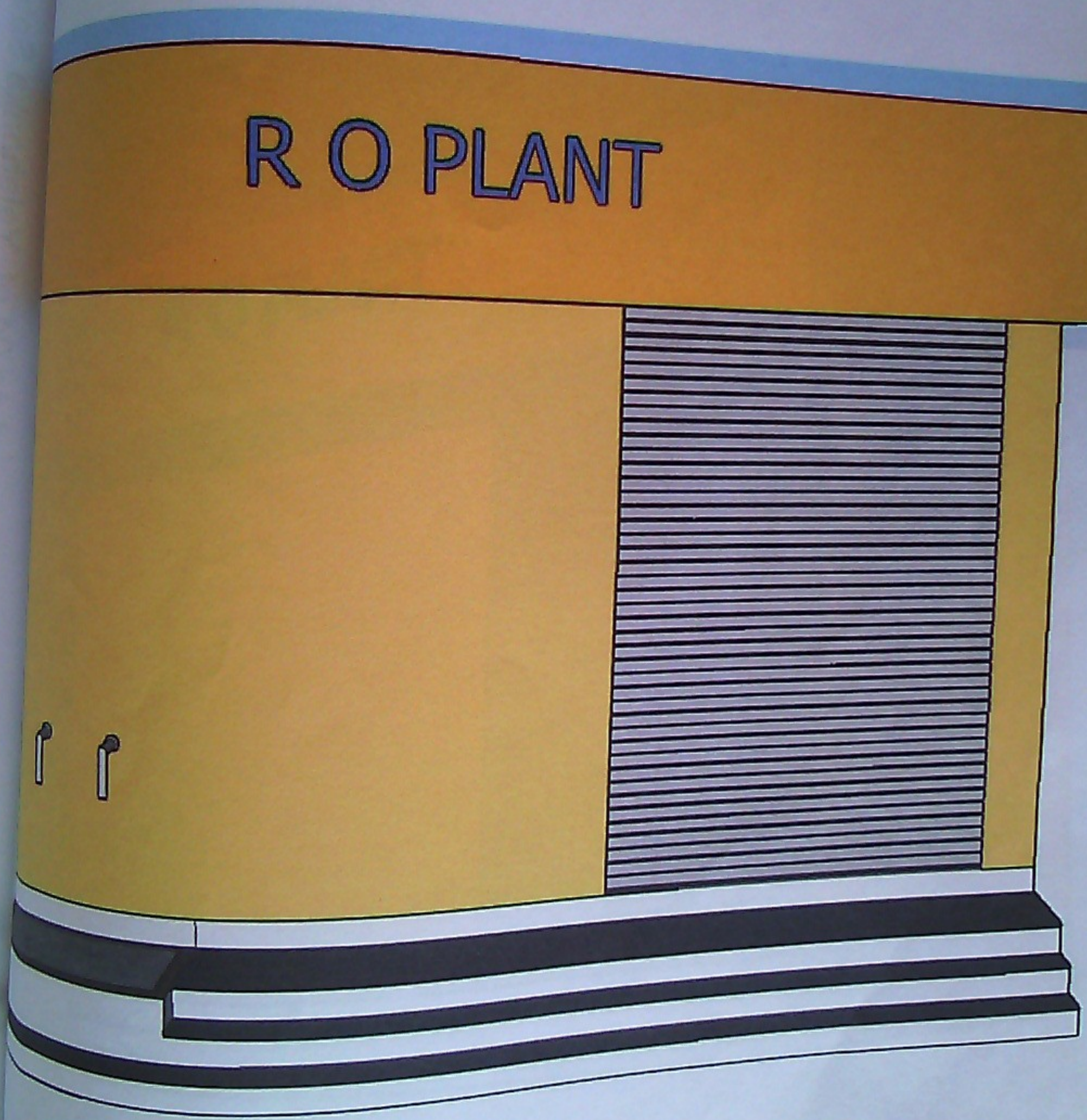


SECTION AT (X - X)

Assistant Engineer
Ward NO. 04

Assistant Executive Engineer
Yelahanka Satellite town Sub Division

All Dimensions are in meters


R O PLANT